



HF Happenings 835

Volume 17, Issue 45, the week of 18 February 2019

You can now download your copy of HF Happenings from www.sarl.org.za/hf_happenings.asp

Southern African Fauna and Flora <https://zsfaunaandflora.wordpress.com/>

ZS SOTA <https://zssota.wordpress.com>

5 MHz (60 metre) allocations <http://www.sarl.org.za/public/contests/contestrules.asp>

https://en.wikipedia.org/wiki/60-metre_band#External_links



Beaches on the Air

On the BOTA Facebook page, Sidney ZS5SID, said, "Great day activating South Beach Durban 10 contacts were made this was the first beach from South Africa I will activate another one soon. Time to include all our beaches in South Africa."



SARL RTTY Contest on Sunday

The SARL RTTY Contest is open to all radio amateurs in Southern Africa and encourages QSOs using RTTY.

The contest takes place from 14:00 to 17:00 UTC on Sunday 24 February 2019 with activity on 80, 40 and 20 metres. The exchange is an RST report and your grid square (e.g. KF26) and you may work a station once per band.

QSOs with stations in Southern Africa are worth 3 points and QSOs with DX stations are worth 1 point. Your log must be submitted by 4 March to contest@sarl.org.za. The full set of rules can be found on page 34 of the 2019 SARL Blue Book.

Set yourself a goal - Worked all ZS, the 2019 Worked Zone 39 and/or Worked all Grid Squares on RTTY!

Contest Activity in March

On Sunday 3 March the popular SARL Hamnet 40 m Simulated Emergency Contest takes to the air from 12:00 to

February

8 - Closing date NFD logs; Closing date for AWA CW Activity Day logs

19 - Highway ARC Monthly Meeting

21 - The sinking of the SS Mendi -

05:00 21 February 1917

22 - Closing date for March Radio ZS

23 and 24 - Clarens Craft Beer Festival

23 - West Rand Flea Market

24 - SARL RTTY Contest

27 - International Milk Tart Day

28 - Closing date for SARL Hall of Fame nominations; closing date for AMSAT SA Space Symposium early bird registration

March

1 to 10 - Stellenbosch Wordfees

2 and 3 - ARRL DX Phone Contest

3 - SARL Hamnet 40 m contest; World Wildlife Day

4 - closing date digital logs

6 to 12 - Scifest, Grahamstown

7 to 10 - Hobby-X, Johannesburg

8 - International Women's Day

9 - SARL YL Sprint

9 and 10 - SARL VHF/UHF Analogue contest; 82nd RSGB Commonwealth contest

10 - Cape Town Cycle Race

11 - closing date for HAMNET logs

15 - all provincial schools close

16 - AMSAT SA Space Symposium; closing date for YL Sprint logs

16 to 20 - Wild Trout Festival, Rhodes

19 - Highway ARC Monthly Meeting

20 - the Wednesday 80 m Club Sprint; Autumn Equinox; International Day of Happiness

21 - SA Human Right's Day; World Down Syndrome Day; International Day of Forests

21 to 27 - Klein Karoo National Arts festival, Oudtshoorn

14:00 UTC. Arrange a Club activity, bring and braai and a portable station.

On Saturday 9 March, the first leg of the SARL YL Sprint will be on the air to celebrate International Women's Day (8 March each year). The Sprint will run from 12:00 to 14:00 UTC.

Over the weekend of 9 and 10 March, you can participate in the SARL VHF/UHF Analogue Contest and/or the 82nd RSGB Commonwealth Contest (CW only).

www.rsgbcc.org/hf/rules/2019/rberu.shtml.

On Wednesday 20 March, the first Wednesday 80 m Club Sprint will be on the air from 17:00 to 18:00 UTC with phone and CW activity.

On the weekend of 30 and 31 March, you can participate in the CQ WW WPX SSB Contest www.cqwp.com/rules.htm.

The rules for the SARL Hamnet contest, the SARL YL Sprint and the SARL VHF/UHF Analogue contest can be found in the 2019 Blue Book. The Wednesday 80 m Club Sprint rules appear in the March 2019 Radio ZS.

African DX

Contacts with stations on the African continent count towards the SARL's All Africa Award
(www.sarl.org.za/public/awards/awards.asp)



Senegal, 6W. Willy, ON4AVT will be active gain as 6W7/ON4AVT from Senegal from 20 February to 30 March. He will operate PSK, CW, SSB and possibly FT8 on various bands, 60 metres included. QSL via home call, bureau preferred. www.on4avt.be/trip_to_senegal.htm

The Gambia, Don, G3XTT, will be in The Gambia from 5 to 12 March. He will mainly operate in the 82nd RSGB Commonwealth Contest over the weekend of 9 and 10 March. The call sign will be C56DF and Don hopes to do some operating before and after the contest. This will be a CW only operation, low power (IC-7300 and wires) from a rooftop apartment. It is unlikely there will be space for 80 or 160 m antennas, but Don hopes to use the trip to recce possible opportunities for a larger operation later in the year or early next year. He will, of course, upload logs to LoTW and ClubLog, but possibly only after his return to the UK. QSL direct to Don's home callsign or via ClubLog's OQRS.

African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Reunion Island, FR. As this was being written, Vlad, UA4WHX, was active as FR/UA4WHX from Reunion Island (IOTA AF-016). He says his QTH is a remote site (1 500 m ASL) in the Belouve National Park (Gite de Belouve). As always, the length of his stay is unknown. Look for activity to be on 40, 30, 20 and 17 metres using mostly CW with some SSB. QSL via UA4WHX.



Cape Verde, D4. Helmut, DF7EE, Andrea, HB9DUR, Marco, IK2LFF, Kris, YL3JA and Ljubomir, YU5EEA will be active as D4C from Cape Verde Island during the CQ WW WPX SSB Contest on 30 and 31 March as Multi-Op entry. Operators HB9DUR and YU5EEA are YOTA members. QSL info: <http://d4c.cc/qs1>

Lampedusa Island, IG9. A team from ARI Modena will be active as IG9MO from Lampedusa Island (AF-019) from 28 March to 2 April. They will operate SSB, CW and digital modes on the HF bands and will participate in the CQ WW WPX SSB Contest. QSL via IK4ALM.

CW Skimmer Networks

An awareness of how CW skimmer network works also improves your chances. According to a recent post by Pete, N4ZR to the RBN Operators group, it would be best for CW operators to stay within 70 kHz of the bottom of 40, 20 and 15 meters, since the default configuration for Skimmer configuration is to decode CW for the first 70 kHz of those bands. This "means that if you CQ above xxx70, you may be spotted less often because fewer nodes will be decoding above that frequency. On the other hand, if it helps to find a clear run frequency, the benefit may outweigh any loss. With 170+ nodes on the air, there should be plenty of spots for all." <https://groups.io/g/RBN-OPS/message/2828>

Word to The Wise

Key Clicks - Key Clicks are caused by the undesirable and unwanted widening of a CW signal due to energy in the signal's sidebands. Contributing factors include the shape of the keying waveform, too-short rise and fall times of the transmitted signal, or variation in the carrier oscillator frequency. Key clicks can sound like thumps or clicks to a receiver tuned with a few kHz of the transmitter frequency. Unscrupulous operators have used key clicks to their advantage by making adjacent frequencies undesirable to use, seeking to gain an unfair advantage in crowded contest conditions. This is against the rules of most contests.

Operating Tip

Getting Spotted on Phone - until we have SSB skimmers, you're going to have to rely on humans to spot you on phone during a contest. You'll have to rely on social capital to increase your chances https://en.wikipedia.org/wiki/Social_capital. Joining a contesting club, becoming friends with more testers, becoming a 'well known individual' in the contesting community, frequent and consistent contest participation, and in general raising the visibility of your call sign through impeccable operating habits are all ways to put yourself out there.

Locating buried cables

The theory behind locating buried cables using electromagnetic induction is discussed in a booklet published by the SPX Corporation. Active and passive detection, frequencies to use for active detection, and cable fault detection and locating are covered in detail. <https://www.radiodetection.com/sites/default/files/Theory-cable-pipe-location>. *(I think I should send a copy to the local municipality!)*

Voice Keyer for the Mac

Mac users in need of a voice keyer for use with dogparkSDR should check out Peter, W6OP's SDR Voice Keyer software. It takes advantage of a port of the smartSDR API to OSX. Peter also has some suggestions on his website for programs and programming libraries for those that are looking for more ways to use Flex Radio Systems gear from their Mac environment. <https://w6op.com/2019/sdr-voice-keyer-for-mac/>

Contest Spotting

Being spotted during a contest by humans or by CW/RTTY skimmers can be a critical rate enhancer. To maximize your chances of being automatically spotted, your CQ messages should follow some basic rules that were outlined in N6TV's 2014 presentation on the topic https://www.kkn.net/~n6tv/N6TV_Dayton_2014_CW_Skimmer_Update.pdf :

- ✓ Send everything at the same consistent speed
- ✓ Never change CW speed in a message
- ✓ Call CQ or TEST and send your call twice, for example
- ✓ CQ N6TV N6TV
- ✓ TEST N6TV N6TV
- ✓ CQ N6TV N6TV TEST

- ✓ Use proper spacing (let the computer send the CW)
- ✓ Change your frequency slightly (but > 1 kHz) to get spotted again

Macro Focus

Brian, N9ADG

While setting up a new computer for the ARRL RTTY Roundup last month, I took the opportunity to examine the message macros we were using in greater detail. My logger of choice for this contest was *N1MM Logger+*, but other loggers have similar capabilities in their macros for controlling both the outgoing message and the logging process. The *N1MM Logger+* documentation wiki has two cases of good example messages, but curiously enough the ones that are installed by default with *N1MM Logger+* are different, and in my opinion not as good since they have extra filler words like "de" that aren't necessary for the contest exchange. I edited the message file to have the CQ, exchange, and TU messages that I wanted, and then went back to documentation to explore some of the more advanced macros.

[http://n1mm.hamdocs.com/tiki-index.php?page=Function+Key+Examples;](http://n1mm.hamdocs.com/tiki-index.php?page=Function+Key+Examples)

http://n1mm.hamdocs.com/tiki-list_file_gallery.php?galleryId=23

One feature that I've wanted for a while but only just discovered is *already* built in is the ability to vary a particular macro message. A practical example would be to change my RTTY Roundup 'TU' message every now and then from "TU N9ADG CQ" to "TU N9ADG RU" just to keep things interesting. I found that capability in the VARYMSG1 macro.

The list of *N1MM Logger+* macros is extensive and reflective of the rich history and broad range of contesting needs, everything from specific contest requirements to packet spot lookups to multiple radio control to multi-operator communication. The chances are that if I have a need for particular macro capability, somebody else has too, and it's already possible and included.

But here's one that doesn't exist. Maybe we'll see in the future:
{LOGTHENTWEET BRAGS:xxxx} - Log the current contact, then sends a brag message via Twitter using the specified brags file. Substitutes QSO information into the brag message using the macro message syntax.

Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 18 to 25 February 2019

Run for the Bacon QRP Contest
02:00 - 04:00 UTC 18 February
Geographic Focus: Worldwide
Participation: Worldwide
Mode: CW
Bands: 160, 80, 40, 20, 15, 10 m
Classes: Single Band; All Band
Max power: 5 watts
Exchange: RST and state, province or country and member no or power
Work stations: Once per band
QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent
Multipliers: Each state, province, or country once; Multiply mults by 2 if >50 members worked



Score Calculation: Total score = total QSO points x total mults

Submit logs by: 24 February 2019

E-mail logs to: (none)

Upload log at:

<http://qrpcontest.com/pigrun/autolog.php>

Mail logs to: (none)

Find rules at: <http://qrpcontest.com/pigrun/>

QRP Fox Hunt

02:00 - 03:30 UTC 20 February

Geographic Focus: United States

Participation: Worldwide

Mode: CW

Bands: 40 m Only

Classes: Single Op - fox or hound

Max power: 5 watts

Exchange: RST, state, province or country, name and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 03:30 UTC 21 February 2019

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at:

www.qrpfoxhunt.org/winter_rules.htm

Phone Fray

02:30 - 03:00 UTC 20 February

Geographic Focus: North America

Participation: Worldwide

Mode: SSB

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: NA: Name and state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 03:00 UTC 22 February 2019

E-mail logs to: (none)

Post log summary at: www.3830scores.com

Mail logs to: (none)

Find rules at:

www.perluma.com/Phone_Fray_Contest_Rule_s.pdf

CWops Mini-CWT Test

13:00 - 14:00 UTC and 19:00 - 20:00 UTC 20 February and 03:00 - 04:00 UTC 21 February

Geographic Focus: Worldwide

Participation: Worldwide

Awards: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or high

Max power: HP: >100 watts; LP: 100 watts;

QRP: 5 watts

Exchange: Member: Name and Member no; non-Member: Name and state, province or country

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: Each call once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 04:00 UTC 23 February 2019

Post log summary at: www.3830scores.com

Mail logs to: (none)

Find rules at: <https://cwops.org/cwops-tests/>

AGCW Semi-Automatic Key Evening

19:00 - 20:30 UTC 21 February

Geographic Focus: Worldwide

Participation: Worldwide

Mode: CW

Bands: 80 m Only

Classes: (none)

Exchange: RST, serial no, "/" and 2-digit year first used a bug

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 15 March 2019

E-mail logs to: semiautomatic@agcw.de

Mail logs to: Manager: Ulf-Dietmar Ernst, DK9KR, Elbstrasse 60, D-28199 Bremen, Germany

Find rules at:

www.agcw.org/index.php/en/contests-and-cw-activities/semi-automatic-key-evening

NCCC RTTY Sprint

01:45 - 02:15 UTC 22 February

Geographic Focus: North America

Participation: Worldwide

Mode: RTTY

Bands: (see rules)

Classes: (none)

Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 24 February 2019
E-mail logs to: (none)
Post log summary at:
<http://www.3830scores.com/>
Mail logs to: (none)
Find rules at:
<http://www.ncccsprint.com/rttyns.html>

QRP Fox Hunt
02:00 - 03:30 UTC 22 February
Geographic Focus: United States
Participation: Worldwide
Mode: CW
Bands: 80 m Only
Classes: Single Op - fox or hound
Max power: 5 watts
Exchange: RST, state, province or country, name and power output
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 03:30 UTC 23 February 2019
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at:
www.qrpfoxhunt.org/winter_rules.htm

NCCC Sprint Ladder
02:30 - 03:00 UTC 22 February
Geographic Focus: North America
Participation: Worldwide
Mode: CW
Bands: 160, 80, 40, 20, 15, 10, 6 m
Classes: Single Op
Max power: 100 watts
Exchange: Serial no, name and QTH
Work stations: Once per band
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 24 February 2019
E-mail logs to: (none)

Post log summary at: www.3830scores.com/
Mail logs to: (none)
Find rules at: www.ncccsprint.com/rules.html

CQ 160-Metre SSB Contest
22:00 UTC 22 February to 22:00 UTC 24 February
Geographic Focus: Worldwide
Participation: Worldwide
Awards: Worldwide
Mode: SSB
Bands: 160 m Only
Classes: Single Op - QRP, low or high; Single Op Assisted - high; Multi-Op - high
Max operating hours: Single Op: 30 hours; Multi-Op: 40 hours
Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts
Exchange: W/VE: RS and state or province; DX: RS and CQ Zone
QSO Points: 2 points per QSO with own country; 5 points per QSO with other countries on same continent; 10 points per QSO with other continents; 5 points per QSO with maritime mobile
Multipliers: Each US state and DC (excluding KH6/KL7); Each VE province; Each DXCC and WAE country (including KH6/KL7)
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 22:00 UTC 1 March 2019
E-mail logs to: 160ssb@cq160.com
Upload log at: www.cq160.com/logcheck/
Mail logs to: CQ 160 Metre Contest, c/o N2NT, PO Box 25, Dayton, NJ 08810, USA
Find rules at: www.cq160.com/rules.htm

REF SSB Contest
06:00 UTC 23 February to 18:00 UTC 24 February
Geographic Focus: France and overseas territories
Participation: Worldwide
Awards: Worldwide
Mode: SSB
Bands: 80, 40, 20, 15, 10 m
Classes: Single Op All Band; Single Op Single Band; Multi-Single; Club; SWL
Max operating hours: Single Op: 28 hours in no more than 3 increments of at least 1 hour each

Max power: HP: >100 Watts; LP: 100 Watts;
QRP: 5 Watts
Exchange: French: RS and Department or
Prefix; non-French: RS and serial no
Work stations: Once per band
QSO Points: French: 6 points per QSO with
French station same continent; French: 15
points per QSO with French station on
different continent; French: 1 point per QSO
with non-French station same continent;
French: 2 points per QSO with non-French
station on different continent; non-French: 1
point per QSO with French station same
continent; non-French: 3 points per QSO with
French station on different continent
Multipliers: French/Corsica departments once
per band; French overseas prefixes once per
band; non-French DXCC countries once per
band (available only to French stations)
Score Calculation: Total score = total QSO
points x total mults
Submit logs by: 4 March 2019
E-mail logs to: (none)
Upload log at: [http://concours.r-e-
f.org/contest/logs/upload-form](http://concours.r-e-f.org/contest/logs/upload-form)
Mail logs to: (none)
Find rules at: [http://concours.r-e-
f.org/reglements/actuels/reg_cdfhf_dx.pdf](http://concours.r-e-f.org/reglements/actuels/reg_cdfhf_dx.pdf)

UBA DX CW Contest
13:00 UTC 23 February to 13:00 UTC 24
February
Geographic Focus: Belgium
Participation: Worldwide
Awards: Europe
Mode: CW
Bands: 80, 40, 20, 15, 10 m
Classes: Single Op All Band - low or high; Single
Op Single Band - low or high; Single Op QRP;
Multi-Op; SWL
Max power: HP: >100 watts; LP: 100 watts;
QRP: 5 watts
Exchange: ON: RST, serial no and province;
non-ON: RST and serial no
Work stations: Once per band
QSO Points: 10 points per QSO with Belgian
station; 3 points per QSO with other EU
stations; 1 point per QSO with non-EU stations
Multipliers: Each Belgian province once per
band; Each Belgian prefix once per band; Each
EU DXCC country once per band

Score Calculation: Total score = total QSO
points x total mults
Submit logs by: 23:59 UTC 10 March 2019
E-mail logs to: ubacw@uba.be
Mail logs to: (none)
Find rules at:
[http://www.uba.be/en/hf/contest-rules/uba-
dx-contest-rules](http://www.uba.be/en/hf/contest-rules/uba-dx-contest-rules)

South Carolina QSO Party: 15:00 UTC 23
February to 01:59 UTC 24 February
Geographic Focus: United States/Canada
state/province QSO party
Participation: Worldwide
Awards: Worldwide
Mode: CW, Digital, Phone
Bands: 160, 80, 40, 20, 15, 10, 6 m
Classes: Single Op Fixed - CW, SSB, digital or
mixed - QRP, low or high; Multi-Single Fixed -
CW, SSB, digital or mixed - QRP, low or high;
Multi-Multi Fixed - CW, SSB, digital or mixed -
QRP, low or high; Mobile-Single - CW, SSB,
digital or mixed - QRP, low or high; Mobile-
Multi - CW, SSB, digital or mixed - QRP, low or
high
Max power: HP: >100 W; LP: 100 W; QRP: 5 W
Exchange: SC: RS(T) and county; non-SC: RS(T)
and state, province or DX
Work stations: Once per band per mode per
county
QSO Points: 1 point per phone QSO; 2 points
per CW or Digital QSO; SC stations contacting
non-SC stations earn double QSO points;
Bonus: 250 points per QSO with W4CAE and
WW4SF; 50 points per QSO with WN4AFP; 50
points per QSO with Abbeville county
Multipliers: SC: Each SC county, US state
(including DC) and VE province/territory once
per mode; non-SC: Each SC county once per
mode
Score Calculation: Total score = (total QSO
points x total mults) and Bonus Points
Submit logs by: 25 March 2019
E-mail logs to: (none)
Upload log at: [http://scqso.com/log-
submission/](http://scqso.com/log-submission/)
Mail logs to: (none)
Find rules at: <http://scqso.com/rules/>

North American RTTY QSO Party

18:00 UTC 23 February to 05:59 UTC 24 February
 Geographic Focus: North America
 Participation: Worldwide
 Awards: North America
 Mode: RTTY
 Bands: 80, 40, 20, 15, 10 m
 Classes: Single Op – QRP or low; Multi-Two - low
 Max operating hours: Single Op: 10 hours; Multi-Two: 12 hours
 Max power: LP: 100 watts; QRP: 5 watts
 Exchange: NA: Name and state, DC, province or country; non-NA: Name
 Work stations: Once per band
 QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
 Multipliers: Each US state/DC (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band
 Score Calculation: Total score = total QSO points x total mults
 Submit logs by: 05:59 UTC 1 March 2019
 Upload log at: <http://www.ncjweb.com/naqplogsubmit/>
 Mail logs to: Mark Aaker, K6UFO, 300 Berry St., Unit 1009, San Francisco, CA 94158-1668, USA
 Find rules at: <http://www.ncjweb.com/NAQP-Rules.pdf>

NA Collegiate RTTY Championship
 18:00 UTC 23 February to 05:59 UTC 24 February
 Geographic Focus: North America
 Participation: Worldwide
 Awards: North America
 Mode: RTTY
 Bands: 80, 40, 20, 15, 10 m
 Classes: Multi-One - low
 Max operating hours: 12 hours
 Max power: LP: 100 watts
 Exchange: NA: Name and state, DC, province or country; non-NA: Name
 Work stations: Once per band
 QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
 Multipliers: Each US state/DC (including KH6/KL7) once per band; Each VE province/territory once per band; Each North

American country (except W/VE) once per band
 Score Calculation: Total score = total QSO points x total mults
 Submit logs by: 05:59 UTC 1 March 2019
 Upload log at: <http://www.ncjweb.com/naqplogsubmit/>
 Mail logs to: Mark Aaker, K6UFO, 300 Berry St., Unit 1009, San Francisco, CA 94158-1668, USA
 Find rules at: <http://www.w9smc.com/nacc/>

High Speed Club CW Contest
 09:00 UTC-11:00 UTC 24 February and 15:00 UTC-17:00 UTC 24 February
 Geographic Focus: Worldwide
 Participation: Worldwide
 Awards: Worldwide
 Mode: CW
 Bands: 80, 40, 20, 15, 10 m
 Classes: HSC Members; Non-Members; QRP; SWL
 Max power: 150 watts; QRP: 5 watts
 Exchange: Members: RST and HSC no; non-Members: RST and "NM"
 Work stations: Once per band per period
 QSO Points: 5 points per QSO with an HSC member; 1 point per QSO with a non-member
 Multipliers: Each DXCC country once per band per contest period (only QSOs with members)
 Score Calculation: Total score = total QSO points x total mults
 Submit logs by: 16 March 2019
 E-mail logs to: (none)
 Upload log at: <https://sites.google.com/view/hsc-contest>
 Mail logs to: (none)
 Find rules at: <http://www.highspeedclub.org/>

Classic Exchange, Phone
 13:00 UTC 24 February to 07:00 UTC 25 February and 13:00 UTC 26 February to 07:00 UTC 27 February
 Geographic Focus: Worldwide
 Participation: Worldwide
 Mode: AM, SSB, FM
 Bands: 160, 80, 40, 20, 15, 10, 6, 2 m
 Classes: (see rules)
 Exchange: Name, RS and state, province or country and rcvr/xmtr manuf/model
 Work stations: Once per band per mode per rcv/xmtr manuf/model

QSO Points: (see rules)
 Multipliers: (see rules)
 Score Calculation: Total score = sum (total mode QSO points x total mode mults) and Bonus Points
 Submit logs by: 2 April 2019
 E-mail logs to: k2rp@arrl.net
 Mail logs to: K2RP, 659 Shanas Lane, Encinitas, CA 92024, USA
 Find rules at:
http://www.classicexchange.org/jan19/Winter_2019_CX_Rules.pdf

SARL Digital Contest
 14:00 - 17:00 UTC 24 February
 Geographic Focus: Southern Africa
 Participation: Southern Africa
 Awards: Southern Africa
 Mode: PSK, RTTY
 Bands: 80, 40, 20 m
 Classes: (none)
 Exchange: RST and QSO no
 Work stations: Once per mode per band
 QSO Points: (see rules)
 Multipliers: (see rules)
 Score Calculation: Total score = total QSO points x total mults
 Submit logs by: 4 March 2019
 E-mail logs to: contest@sarl.org.za
 Mail logs to: (none)
 Find rules in: 2019 SARL Blue Book

North Carolina QSO Party: 15:00 UTC 24 February to 0059Z 25 February
 Geographic Focus: United States/Canada state/province QSO party
 Participation: Worldwide
 Awards: Worldwide

Mode: CW, Phone, Digital
 Bands: 80, 40, 20, 15, 10, 6, 2 m
 Classes: Single Op - NC or non-NC – CW, phone or digital – low; Single Op - NC or non-NC - Mixed - QRP, low or high; NC Mobile mixed – low; NC Club Mixed - low or high; NC Club Phone – low; NC County Expedition Mixed - low
 Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts CW or dig/10 watts phone
 Exchange: NC: County; non-NC: state, province or country
 Work stations: Once per band per mode
 QSO Points: 2 points per phone QSO; 3 points per CW QSO; 5 points per digital QSO; Bonus Points: 50 points for at least one QSO with Clay (CLA) county; 50 points for at least one QSO with Currituck (CUR) county; 50 points for at least one QSO with NI4BK; 50 points for at least one QSO with W4DW; 50 points for at least one QSO with W1VOA; 50 points for at least one QSO with W4MY; 200 points if all 6 other bonus points worked; Bonus Points for NC Mobiles/Expeditions: 100 points for each county activated
 Multipliers: NC stations: Each NC county, state, province, and one DXCC country once; Non-NC stations: Each NC county once
 Score Calculation: Total score = (total QSO points x total mults) and bonus points
 Submit logs by: 11 March 2019
 E-mail logs to: (none)
 Upload log at: <http://www.ncqsoparty.org/logs>
 Mail logs to: NC QSO Party, c/o Charles Swindell, 10809 Rondeau Woods Ct., Raleigh, NC 27614, USA
 Find rules at: <http://ncqsoparty.org/rules/>

Next Week's Contests

Classic Exchange, Phone, 13:00 UTC 24 February to 07:00 UTC 25 February and 13:00 UTC 26 February to 07:00 UTC 27 February
 SKCC Sprint, 00:00 - 02:00 UTC 27 February
 QRP Fox Hunt 02:00 - 03:30 UTC 27 February
 Phone Fray, 02:30 - 03:00 UTC 27 February
 CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 27 February and 03:00 - 04:00 UTC 28 February
 UKEICC 80 m Contest 20:00 - 21:00 UTC 27 February
 RSGB 80 m Club Championship, CW, 20:00 - 21:30 UTC 28 February
 NCCC RTTY Sprint, 01:45 - 02:15 UTC 1 March

QRP Fox Hunt, 02:00 - 03:30 UTC 1 March
NCCC Sprint Ladder, 02:30 - 03:00 UTC 1 March
ARRL International DX SSB Contest, 00:00 UTC 2 March to 24:00 UTC 3 March
Novice Rig Roundup, 00:00 UTC 2 March to 23:59 UTC 10 March
Wake-Up! QRP Sprint, 06:00 - 06:29 UTC and 06:30 - 06:59 UTC and 07:00 - 07:29 UTC and 07:30 - 08:00 UTC 2 March
Open Ukraine RTTY Championship, 18:00 - 20:59 UTC (low band) and 21:00 - 23:59 UTC 2 March (low band) and 08:00 - 10:59 UTC (high band) and 11:00 - 13:59 UTC 3 March (high band)
UBA Spring CW Contest, 07:00 - 11:00 UTC 3 March
NSARA Contest, 12:00 - 16:00 UTC and 18:00 - 22:00 UTC 3 March
SARL Hamnet 40 m Simulated Emergency Contest, 12:00 - 14:00 UTC 3 March
RSGB 80 m Club Championship, Data, 20:00 - 21:30 UTC 4 March
ARS Spartan Sprint, 02:00 - 04:00 UTC 5 March
AGCW YL-CW Party, 19:00 - 21:00 UTC 5 March

Here's A Few Interesting Anagrams

THE MORSE CODE, when you rearrange the letters: HERE COME DOTS
ASTRONOMER, when you rearrange the letters: MOON STARER
DESPERATION, when you rearrange the letters: A ROPE ENDS IT
DORMITORY, when you rearrange the letters: DIRTY ROOM
ELECTION RESULTS, when you rearrange the letters: LIES - LET'S RECOUNT
SNOOZE ALARMS, when you rearrange the letters: ALAS! NO MORE Z 'S
A DECIMAL POINT, when you rearrange the letters: I'M A DOT IN PLACE
THE EARTHQUAKES, when you rearrange the letters: THAT QUEER SHAKE

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX